

# Software for Environmental Awareness

July 2001

USEPA Region 5 & Purdue University

## New Products

### 14 New HTML Programs

With our latest releases, the entire set of original Farm\*A\*Syst questionnaires for protecting ground water have now been adapted for the Web. The last titles added are: Improving Silage Storage on the Farm, Well Water Location & Condition on the Farm, and Hazardous Waste Management on the Farm. We've added interactive self-evaluation questionnaires to the other Farm\*A\*Syst programs.

And two long time favorites, Residential Water Conservation and Erosion Best Management Practices are now Web-ready. We've also added QTVR virtual reality panoramas to the hospital tour on Mercury Reduction in Medical Facilities. Check out our new releases on [www.epa.gov/seahome/](http://www.epa.gov/seahome/)



### Oilspill Exercise Generator

If you're planning an oil spill exercise or response drill, the Exercise Generator can help you complete the task in a matter of hours. It also contains evaluation checklists for each of the elements listed in the National Preparedness for Response Exercise Program (PREP).

#### Exercise Development

- » Develop an exercise for spills on land or inland waters based on one of the scenarios supplied in the database, or write your own scenario from scratch.
- » Use the seasonal weather data for all US States and Territories, and Canada, or customize it.
- » Select implementation messages which are delivered throughout the course of the exercise to move the activity along.
- » Add appropriate references to customize the scenario and messages to a locality.

#### Evaluation Checklists

Fill them out in the program, on a laptop, then transfer the text into a word processor to compile your evaluation report. Or print the evaluation

checklists and fill them out on paper.

#### Audiences

- » State and local agencies which conduct oil spill response exercises
- » Businesses and industries which must develop emergency response plans
- » Small communities

Requires Windows 95 or later and 530MB on hard drive. For ordering information, see [www.epa.gov/seahome/oilspill.html](http://www.epa.gov/seahome/oilspill.html)



### Private Pesticide Applicator Training

This is an interactive guide to the Federal regulatory requirements and user health concerns for pesticide handling and application. It includes an extended tutorial on pesticide laws and regulations, a guide to safe handling and mixing, and a short course in reading and interpreting the labels and health warnings. It also features a comprehensive test and slide shows with English or Spanish soundtracks.

The program can be used as a preparation, actual course material, or a followup tool for required FIFRA retraining or recertification. It comprises about 40% of the content of the Indiana CES FIFRA classroom course. While some particulars are based upon State of Indiana requirements, the bulk of the program is universally relevant and shows wise practices appropriate anywhere in the world.

Employers of handlers and applicators can use it as part of a program for training new hires, especially for individuals starting in the middle of the growing season. The slide shows provide a quick way to educate new workers. The program clearly explains pesticide laws and safe health practices. It offers significant economic benefits for employers by protecting worker health and encouraging appropriate levels of application.

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*What we're working on now...*

**Pollution Prevention for the Lodging Industry** - Energy management, solid waste controls, water conservation, air quality, purchasing management. Tour the virtual hotel, or try self-assessment tools, case studies, contacts and references.

**Mercury in Buildings** - Why mercury matters, how to reduce mercury releases, what to do if there's a mercury spill, what problems exist in different types of buildings, and what devices contain mercury. For demolition contractors, building contractors, and building owners.

**Beneficial Lawn Care** - If you're starting a new lawn, you'll find help for selecting a type of grass and preparing/planting your seedbed. If your interest is maintaining your lawn, we offer information on pest and disease control, including integrated pest management, fertilization and irrigation.



## Practical Tools

### Environmental Assessment Case Study (EACASE)

This program is a companion piece to the Environmental Assessment Resource Guide. It takes a real-life example of an environmental impact assessment and leads the user through the environmental assessment process. The program is enhanced with maps, photos, interviews, and simulated flyovers of the project area. The Case Study links to the Resource Guide, and contains workbook-style exercises and a notebook for the user to record notes. Together these two programs provide a solid foundation in environmental assessment. *Due to its size, this program is only available on CD-ROM; see p. 8 for information on Purdue CDs.*

### Environmental Assessment Resource Guide (EARG)

EARG is a generic source of information to help one conduct environmental assessments of virtually any type of project. Topics covered include scoping, generation of alternatives, impact identification and analysis, mitigation, decision making, and post-decision analysis. Of particular interest are the World Bank Mitigation Tables which treat a variety of project types. SVGA photos enhance and illustrate this landmark program.

### Environmental Planning for Small Communities (TRILOGY)

This program offers a complete one-stop introduction to a wide range of environmental issues and decisions that affect small to medium-sized communities. It offers communities the chance to judge their own needs and preferences, and to make informed decisions on their own. Major sections cover:

1. Environmental laws and regulations
2. Self-assessment
3. Planning and comparative risk analysis
4. Financial tools and financial self-analysis
5. Case studies
6. Contact and information directory

Each section includes interactive tools, such as a notebook tool to fill in and save survey forms and keep notes. The program combines and integrates numerous publications from Federal agencies and States like Iowa, Minnesota, Montana, and Utah. The result is a user-

friendly product that combines the virtues of an encyclopedia and a Swiss army knife!

### EPA Grant Writing Tutorial (GRANTS)

If you're considering applying for an EPA grant, this interactive HTML software tool could make the process a little easier. It walks users through the grant writing process and helps them learn to write more competitive grants. The program includes:

- » detailed information and tips on writing a grant proposal;
- » how to complete a grant application package (including detailed directions for the forms);
- » program-specific sections on three EPA grant programs (Environmental Education, Environmental Justice, Environmental Justice Through Pollution Prevention)
- » examples of good, complete grant packages;
- » references;
- » a glossary of terms;
- » resources and contacts;
- » a mock grant-writing activity where users are able to compare their results to a successful grant application.



# Environmental Education

## Great Lakes Adventure (GLADVENT)

This program is a first in several ways: it's aimed at a youth audience (grades 9-12), it will run on both Wintel and Mac computers, and it comes in Teacher and Student versions.

Take a virtual tour of the Great Lakes. Explore some of the environmental issues facing Great Lakes communities today. Investigate the natural history of the basin, the water cycle, stratification and turnover of the lakes. Explore six Hot Topics:

- % Habitat loss
- % Beach closures
- % Fish communities
- % Toxics
- % Exotic Species
- % Eutrophication

You can visit the EPA's research vessel Lake Guardian, deck by deck with virtual reality panoramas. The tour includes the ship's state of the art scientific equipment for monitoring and analysis.

Once you've explored a bit, assume the role of a scientist to solve an environmental mystery. You'll have free run of the Lake Guardian's sampling equipment and labs. You'll want to bring your research journal to help you field some tough questions at the final press conference!

## Electronic Wetlands Herbarium (WETHERB)

Two versions are available. The **1993 Midwest Edition** provides a detailed look at the plants typical of 11 different wetland types from bog to wet prairie. Users can explore a list of species found in each type of ecosystem. Entries give detailed botanical information as well as an identification quality photograph of the plant. *This program is available online at [www.epa.gov/seahome/wetherb.html](http://www.epa.gov/seahome/wetherb.html).* The **1995 Update for Continental USA** contains the same detailed information as the 1993 edition, but is structured to help identify plant specimens, and expanded to include species found

throughout the continental US. Users answer a series of questions about their specimen to narrow down their choices to a small list. *Due to its size, this program is only available on the Purdue CD-ROM Vol. 1; see p. 8 for information on Purdue CDs.*



## Conservation

### Residential Water Conservation Techniques (WATCON, SPANCON)

Save water inside and outside the house using water efficient devices. Calculates retrofitting savings. English/Spanish.

### Residential Energy Efficiency (ENERGY)

This program shows effective ways to reduce home energy consumption. Topics include insulation, windows, doors, weatherstripping, and caulking. The expert system feature allows users to calculate how much they will save by making their homes more energy efficient. After you enter information about your home and the energy-saving changes you intend to make, the program uses local utility and climate data to calculate your savings in money, energy, and reduction of pollutants.

### Water Efficient Landscape Planner (LANDSCP, SPANLAND)

Water efficient landscaping: basics of landscape planning, select most appropriate plants for homeowners. English/Spanish

### Pollution Prevention (PREVENT)

Pollution Prevention Act of 1990 addresses P2 in industry, agriculture, energy, government, and consumer sectors. Case studies.



*Environmental education projects in progress...*

**Environmental Management of the Great Lakes** - To teach high school students about environmental issues related to the Great Lakes and encourage participation in volunteer monitoring and restoration projects.

**Biodiversity Around the Great Lakes** - A comprehensive look at Great Lakes ecosystems.

**Big River: The Upper Mississippi**



*Updates & adaptations underway...*

*Spanish translations*  
» *UIC Class V Injection Wells*  
» *Pesticide Applicator Regs*  
» *Livestock Manure Storage*  
» *Livestock Manure Management*

*Web Adaptation of TRILOGY*

*Update of GRANTS*





*A Word About the  
HTML Software...*

*The SEA team is proud  
to expand its offering of  
cross-platform  
programs. They've been  
written in HTML, so  
you can access them  
from our website  
([www.epa.gov/seahome](http://www.epa.gov/seahome)). You can also  
download them and  
run them on your own  
computer.*

*Whether you use a Mac,  
a PC, or a UNIX  
platform, you can  
access these programs  
using your favorite Web  
browser.*



## Agriculture

### **Decentralized Onsite Management for Treatment of Domestic Wastes (DECENT)**

This program provides operation and maintenance information for onsite wastewater treatment systems such as septic systems.

### **Best Management Practices for Soil Erosion (EROSION)**

Best management practices & structural techniques to control soil erosion.

### **Fertilizer Storage & Handling Practices on the Farm (FARMFERT, SPANFERT)**

Overview of fertilizer handling and storage, interactive risk assessment, recommendations for correcting storage problems. English/Spanish

### **Petroleum Storage Practices on the Farm (FARMFUEL)**

Overview of proper fuel storage, interactive risk assessment gives recommendations for correcting storage problems.

### **Pesticide Storage & Handling Practices on the Farm (FARMPEST, SPANPEST)**

Pesticide handling and storage, interactive risk assessment, recommendations for correcting storage problems. English/Spanish

### **Soil and Geologic Site Evaluation (FARMSITE)**

Ground water protection overview: roles of soils, geology, depth to water table. Risk assessment for contamination potential.

### **Hazardous Waste Management on the Farm (FARMHAZ)**

Proper hazardous waste management: regulations, different disposal methods, and how to provide a safer environment. Interactive risk

assessment helps you identify high risk practices on your farm.

### **Livestock Manure Handling (MANURE-HANDLE)**

Overview of manure types and proper management systems for animals from cattle to swine. Interactive risk assessment plus suggestions for reducing the threat to your water supply. (Previously titled Livestock Yards Management)

### **Livestock Manure Storage (MANURE-STORE)**

Interactive risk assessment of threats to surface and ground water from manure storage practices. Provides suggestions to improve manure storage systems. Covers biological treatment, planning a system, storage facilities, and livestock manure hazards. (Previously titled Livestock Waste Storage)

### **Milking Center Wastewater Treatment (MILKING)**

Design milking facilities to receive, treat, safely dispose of wastewater. Interactive risk assessment & improvement suggestions.

### **Improving Silage Storage on the Farm (SILAGE)**

To prevent possible well contamination, silos should be located as far away from wells as practical. General overview of silage storage, interactive risk assessment, and recommendations for correcting silage storage problems.

DOS PROGRAMS:

### **Agricultural Pollution Prevention (AGPP)**

Shows how to save money and reduce pollution by sensible use of fertilizers, pesticides and herbicides.

### **Worker Protection Standard 1995 (PESTREGS)**

Pesticide applicator regulations: search for information on workers, handlers, ag employers, handler employers, owners.



# Toxics

## **Lead in the Environment (LEADENV, SPANLEAD)**

Testing children for lead poisoning, sources of lead, health effects, techniques for reducing exposure at home. English/Spanish.

## **Mercury in Medical Facilities (MERCURY)**

Teaches about the hazards of mercury as commonly used in medical care facilities, especially hospitals and clinics. Mercury can pose a significant health problem for health care professionals, and for patients and the environment in general. The program explains the impact of mercury on human health and the integrity of ecosystems, and a 'virtual hospital' (now featuring virtual reality panoramas) shows sources of mercury and their alternatives. Provides detailed survey and self-audit materials, along with case studies from the Mayo Clinic and other locations.

## **Household Waste Management (HWASTE)**

This HTML program teaches the user how to safely and efficiently manage waste, and particularly hazardous waste, in the home. Users can visit a 'virtual house' and choose extended discussions of the many products they might encounter there. Safe homemade alternatives are presented and evaluated. An enormous state-by-state database of mail, telephone, and Internet contacts puts users in touch with a wealth of free downloadable publications. Includes over 30 quizzes and activities for K-12 students, sorted by grade level.

## **Chemical Contamination in Fish (FISH)**

We have produced a Windows update of the original FISH program. It contains video clips illustrating concepts such as concepts such as bioaccumulation, and new photos and video of target species. Included are an updated list of contaminants from 1997 guidance, as well as references to an online database of fish advisories and State contacts. *Due to its size, this program is only available on CD-ROM; see p. 8 for information on Purdue CDs.*

DOS PROGRAMS:

## **RCRA Boiler & Industrial Furnace Regulations (BIF)**

Understand the applicability, terms, technology and requirements of the BIF rule which regulates the burning of hazardous waste in boilers and industrial furnaces (BIFs)

## **RCRA Corrective Action Process (CAP)**

Corrective action for handling hazardous wastes: interim & stabilization measures, QA plans, health & ecological assessment, remediation technologies, public participation, statutory authorities.

## **Comparative Risk Assessment (COMPRISK)**

Methodology identifies greatest environmental risks and prioritizes environmental problems. History, methodology, case studies.

## **Indoor Air Quality (INDOOR)**

Pollutant sources, health risks, how to reduce pollution levels. Building cross-sections offer pollutant tours of typical home or office.

## **Stratospheric Ozone Depletion (OZONE)**

Causes and effects of ozone depletion, ozone hole, greenhouse effect, and how an individual can help prevent ozone depletion.

# Water

## **Ground Water Primer (GWPRIMER)**

This program educates users about the nature of ground water and the principles of ground water protection. It contains a detailed introduction to hydrogeology, information on numerous drinking water contaminants, and a section on what you can do to protect your ground water. You can learn about ground water protection programs in EPA and other government agencies, and find EPA contacts and hotline numbers. A useful reference for high school earth science.

PLEASE DIRECT  
INQUIRIES ABOUT THE  
SOFTWARE FOR  
ENVIRONMENTAL  
AWARENESS TO:

MS. GLYNIS ZYWICKI  
USEPA REGION 5  
77 W. JACKSON BLVD.  
MAIL CODE P-19J  
CHICAGO, IL 60604

312.886.4571  
ZYWICKI.GLYNIS@EPA.GOV

## Water (continued)

### **UIC Class V Injection Wells (INJECT)**

Class V injection wells, why they exist, why they may pose a danger to the environment, their safe operation and maintenance.

### **Onsite Waste Disposal with Septic Systems (ONSITE)**

Basics of on-site treatment: septic tanks, drainfields, mounds, water conservation. Treatment, design, and siting, soil basics.

### **Private Water Systems (PRIVATE/SPANPRIV)**

Design and construction of private drinking water systems (wells and piping). English/Spanish.

### **Well Location & Condition (WELLOC)**

Well contamination may occur from farmstead activities near drinking water wells. The condition of your well and its proximity to pollution sources determine how much of a risk each source poses to the water you drink. This program contains information useful for identifying and correcting high-risk management and site conditions, and a water well risk assessment program.

### **Water-Effect Ratio for Metals (WER)**

Based on EPA's 1994 "Interim Guidance on the Determination and Use of Water-Effect Ratios (WERs) for Metals." The WER procedure is one of three protocols which may be used to derive site-specific water quality criteria for the protection of aquatic life. An overview, two methods for determining WERs, a checklist, the Guidance document. (Assumes familiarity with water quality standards and criteria and scientific methods.)

### **Water Quality Standards & Criteria (WQS)**

Water quality standards (WQS) provide a framework for maintenance and improvement of water quality when adopted by States, U.S. Territories, and Indian Tribes. This software

presents the three components of State and Tribal water quality standards:

- » waterbody uses (e.g. swimming, boating)
- » water quality criteria or limits on chemical concentrations that may be present the waterbody
- » antidegradation policy to protect existing water quality

Relevant sections of the Clean Water Act are included, along with information on use attainability analysis, the submittal/approval process, implementation, and public involvement. Includes examples.

DOS PROGRAMS:

### **Municipal Pollution Prevention Diagnostic Planner (CMAR)**

User supplies WWTP operation & maintenance info (influent loadings, failures/upsets); program rates potential problems, creates report.

### **Lead in Drinking Water (LEADDW)**

Answers questions about dangers of lead in drinking water, gives techniques for reducing lead exposure.

### **Surface Water Education System (SURFWAT)**

Importance, quantity, and distribution of surface water, and how it can become contaminated. Agricultural best management practices.

### **Alternatives for Unsewered Communities (UNSEWER)**

Facilities planning for small communities: needs documentation, alternatives, selection, treatment management & implementation.

### **Wellhead Protection (WELLHEAD)**

Public water supply protection. Planning team, wellhead protection area delineation, contaminant source inventory, management.



**AGPP: Agricultural Pollution Prevention** 1991 (DOS) 8Mb  
[www.epa.gov/seahome/agpp.html](http://www.epa.gov/seahome/agpp.html)

**BIF: RCRA Boiler & Industrial Furnace Regulations** 1996 (DOS) 1.7Mb  
[www.epa.gov/seahome/bif.html](http://www.epa.gov/seahome/bif.html)

**CAP: RCRA Corrective Action Process** 1995 (DOS) 3.5 Mb  
[www.epa.gov/seahome/cap.html](http://www.epa.gov/seahome/cap.html)

**CMAR: Municipal Pollution Prevention Diagnostic Planner** 1992 (DOS) 3.3Mb  
[www.epa.gov/seahome/cmar.html](http://www.epa.gov/seahome/cmar.html)

**COMPRISK: Comparative Risk Assessment** 1995 (DOS) 9.5Mb  
[www.epa.gov/seahome/comprisk.html](http://www.epa.gov/seahome/comprisk.html)

**DECENT: Decentralized On-Site Management for Treatment of Domestic Wastes** (WEB) 1999 2.5 Mb  
[www.epa.gov/seahome/decent.html](http://www.epa.gov/seahome/decent.html)

**EACASE: Environmental Assessment Case Study** 1997 (WIN) CDROM  
[www.epa.gov/seahome/eacase.html](http://www.epa.gov/seahome/eacase.html)

**EARG: Environmental Assessment Resource Guide** 1993 (WIN) 40Mb  
[www.epa.gov/seahome/earg.html](http://www.epa.gov/seahome/earg.html)

**ENERGY: Residential Energy Efficiency** 1996 (Windows) 35Mb  
[www.epa.gov/seahome/energy.html](http://www.epa.gov/seahome/energy.html)

**EROSION: Best Management Practices for Soil Erosion** 1997 (WEB) 1.7Mb  
[www.epa.gov/seahome/erosion.html](http://www.epa.gov/seahome/erosion.html)

**FARMFERT: Fertilizer Storage and Handling Practices on the Farm** 2001 (WEB) 0.9Mb  
[www.epa.gov/seahome/farmfert.html](http://www.epa.gov/seahome/farmfert.html)

**FARMFUEL: Petroleum Storage Practices on the Farm** 2001 (WEB) 1.3Mb  
[www.epa.gov/seahome/farmfuel.html](http://www.epa.gov/seahome/farmfuel.html)

**FARMHAZ: Hazardous Waste Management on the Farm** 2001 (WEB) 1.6Mb  
[www.epa.gov/seahome/farmhaz.html](http://www.epa.gov/seahome/farmhaz.html)

**FARMPEST: Pesticide Storage and Handling Practices on the Farm** 2001 (WEB) 1.1Mb  
[www.epa.gov/seahome/farmpest.html](http://www.epa.gov/seahome/farmpest.html)

**FARMSITE: Soil and Geologic Site Evaluation** 2001 (WEB) 0.9Mb  
[www.epa.gov/seahome/farmsite.html](http://www.epa.gov/seahome/farmsite.html)

**FISH: Chemical Contamination in Fish** 1997 (WIN) CDROM  
[www.epa.gov/seahome/fish.html](http://www.epa.gov/seahome/fish.html)

**GLADVENT: Great Lakes Adventure** 1999 (Win or Mac) CDROM  
[www.epa.gov/seahome/gladvent.html](http://www.epa.gov/seahome/gladvent.html)

**GRANTS: EPA Grant Writing Tutorial** 1998 (WEB) 4.1Mb  
[www.epa.gov/seahome/grants.html](http://www.epa.gov/seahome/grants.html)

**GWPRIMER: Ground Water Primer** 1998 (WEB) HTML, 2.7Mb  
[www.epa.gov/seahome/gwprimer.html](http://www.epa.gov/seahome/gwprimer.html)

**HWASTE: Household Waste Management** 1997 (WEB) HTML, 8Mb  
[www.epa.gov/seahome/hwaste.html](http://www.epa.gov/seahome/hwaste.html)

**INDOOR: Indoor Air Quality** 1995 (DOS) 7.5Mb  
[www.epa.gov/seahome/indoor.html](http://www.epa.gov/seahome/indoor.html)

**INJECT: UIC Class V Injection Wells** 1999, 1.2Mb  
[www.epa.gov/seahome/inject.html](http://www.epa.gov/seahome/inject.html)

**LANDSCP: Water Efficient Landscape Planner** 1991 (DOS) 2.1Mb  
[www.epa.gov/seahome/landscp.html](http://www.epa.gov/seahome/landscp.html)

**LEADDW: Lead in Drinking Water** 1991 (DOS) 1.0Mb  
[www.epa.gov/seahome/leaddw.html](http://www.epa.gov/seahome/leaddw.html)

**LEADENV: Lead in the Environment** 1999 (WEB) 1.2Mb  
[www.epa.gov/seahome/leadenv.html](http://www.epa.gov/seahome/leadenv.html)

**MANURE-STORE: Manure Storage & Handling on the Farm** 2001 (WEB) 4.3Mb  
[www.epa.gov/seahome/manure-store.html](http://www.epa.gov/seahome/manure-store.html)

**MANURE-HANDLE: Livestock Manure Handling on the Farm** 2001 (WEB) 1.7Mb  
[www.epa.gov/seahome/manure-handle.html](http://www.epa.gov/seahome/manure-handle.html)

## Complete List of SEA Programs

**MERCURY: Mercury in Medical Facilities** 2001 (WEB) 6.0Mb  
[www.epa.gov/seahome/mercury.html](http://www.epa.gov/seahome/mercury.html)

**MILKING: Milking Center Wastewater Treatment** 2001 (WEB) 1.4Mb  
[www.epa.gov/seahome/milking.html](http://www.epa.gov/seahome/milking.html)

**OILSPILL: Oil Spill Exercise Generator** 2001 (WIN) CD-ROM  
[www.epa.gov/seahome/oilspill.html](http://www.epa.gov/seahome/oilspill.html)

**ONSITE: Principles & Design of Onsite Waste Disposal with Septic Systems** 2001 (WEB) 1.0Mb  
[www.epa.gov/seahome/onsite.html](http://www.epa.gov/seahome/onsite.html)

**OZONE: Stratospheric Ozone Depletion** 1995 (DOS) 6Mb  
[www.epa.gov/grtlakes/seahome/ozone.html](http://www.epa.gov/grtlakes/seahome/ozone.html)

**PESTREGS: 1995 Worker Protection Standard** 1995 (DOS) 0.9Mb  
[www.epa.gov/seahome/pestregs.html](http://www.epa.gov/seahome/pestregs.html)

**PREVENT: Pollution Prevention** 1996 (DOS) 8.6Mb  
[www.epa.gov/seahome/prevent.html](http://www.epa.gov/seahome/prevent.html)

**PRIVATE: Private Water Systems** 2001 (WEB) 2.2Mb  
[www.epa.gov/seahome/private.html](http://www.epa.gov/seahome/private.html)

**PRIVPEST: Private Pesticide Applicator Training** 2001 (WIN) CD-ROM  
[www.epa.gov/seahome/privpest.html](http://www.epa.gov/seahome/privpest.html)

**SILAGE: Improving Silage Storage on the Farm** 2001 (WEB) 0.3Mb  
[www.epa.gov/seahome/silage.html](http://www.epa.gov/seahome/silage.html)

**SPANCON: Residential Water Conservation Techniques - Spanish Version** 1991 (DOS) 3.2Mb  
[www.epa.gov/seahome/spancon.html](http://www.epa.gov/seahome/spancon.html)

**SPANFERT: Fertilizer Storage and Handling - Spanish Version** 1993 (DOS) 1.2Mb  
[www.epa.gov/seahome/spanfert.html](http://www.epa.gov/seahome/spanfert.html)

**SPANLAND: Water Efficient Landscape Planner - Spanish Version** 1993 (DOS) 2.1Mb  
[www.epa.gov/seahome/spanland.html](http://www.epa.gov/seahome/spanland.html)

**SPANLEAD: Lead in the Environment - Spanish Version** 1994 (DOS) 1.2Mb  
[www.epa.gov/seahome/spanlead.html](http://www.epa.gov/seahome/spanlead.html)

**SPANPEST: Pesticide Storage & Handling - Spanish Version** 1992 (DOS) 1.6Mb,  
[www.epa.gov/seahome/spanpest.html](http://www.epa.gov/seahome/spanpest.html)

**SPANPRIV: Private Water Systems - Spanish Version** 1993 (DOS) 5.6Mb  
[www.epa.gov/seahome/spanpriv.html](http://www.epa.gov/seahome/spanpriv.html)

**SURFWAT: Surface Water Education System** 1992 (DOS) 3.6Mb  
[www.epa.gov/seahome/surfwat.html](http://www.epa.gov/seahome/surfwat.html)

**TRILOGY: Environmental Planning for Small Communities** 1998 (WIN) 40Mb  
[www.epa.gov/seahome/trilogy.html](http://www.epa.gov/seahome/trilogy.html)

**UNSEWER: Alternatives for Unsewered Communities** 1992 (DOS) 6.2Mb  
[www.epa.gov/seahome/unsewer.html](http://www.epa.gov/seahome/unsewer.html)

**WATCON: Residential Water Conservation Techniques** 2001 (WEB) 3.2Mb  
[www.epa.gov/seahome/watcon.html](http://www.epa.gov/seahome/watcon.html)

**WELLHEAD: Wellhead Protection** 1994 (DOS) 3Mb  
[www.epa.gov/seahome/wellhead.html](http://www.epa.gov/seahome/wellhead.html)

**WELLOC: Water Well Location and Condition on the Farm** 2001 (WEB) 1.0Mb  
[www.epa.gov/seahome/welloc.html](http://www.epa.gov/seahome/welloc.html)

**WER: Water-Effect Ratio for Metals** 1999 (WIN) 5.4Mb  
[www.epa.gov/seahome/wer.html](http://www.epa.gov/seahome/wer.html)

**WETHERB: Electronic Wetlands Herbarium** 1993 (WIN) 47Mb  
[www.epa.gov/seahome/wetherb.html](http://www.epa.gov/seahome/wetherb.html)

**WQS: Water Quality Standards & Criteria** 1999 (WIN) 6.2Mb  
[www.epa.gov/seahome/wqs.html](http://www.epa.gov/seahome/wqs.html)



#### Notice:

1. Neither USEPA nor Purdue University accept liability for any event resulting from the use or misuse of these programs.

2. USEPA Region 5 takes no responsibility for bugs, defects or modifications in second-generation copies.

3. All programs developed by the Center for Technology Transfer and Pollution Prevention at Purdue University are copyrighted. This is not meant to restrict their use, or to restrict others from copying and distributing these programs for strictly non-profit uses, providing proper credit is given to Purdue University.

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## How to Get the EPA/Purdue Software

### From our Web site: [www.epa.gov/seahome](http://www.epa.gov/seahome)

The SEAHOME Web site features downloadable versions of all our current software programs. We offer self-extracting compressed files (.exe for Windows and .zip for Mac users). If you experience problems downloading files during high traffic periods, please try again later. Direct questions or comments to [reshkin.karen@epa.gov](mailto:reshkin.karen@epa.gov).

USEPA no longer fills diskette orders for the software. USEPA does not distribute the CD-ROMs.

### On CD-ROM from Purdue University

#### Details at [www.epa.gov/seahome/cdrom.html](http://www.epa.gov/seahome/cdrom.html)

Purdue University distributes the software on CD-ROM. There are 6 titles currently available. USEPA does not handle orders for the CDs; the only way to get a CD is from Purdue. Prices include postage and handling.

Discounts: There is a \$15 discount when you order the three Environmental Hypermedia CDs (i.e. Vols. I, II, and III) for \$40 (\$50 outside the US). There is a bulk discount when you order any five or more CDs to ship to one address. Contact the Farm Building Plan Service for more details.

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### TITLES AVAILABLE

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\$10 (USD \$15 for orders outside the US)

#### **Exploring the Great Lakes** (1999) Student Edition or Teacher Edition

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The only way to get *Great Lakes Adventure*. Also includes the *Great Lakes Atlas*. Teacher's Edition includes a teacher's guide with worksheet and suggested activities, and the *Great Lakes Atlas*. Please specify which version you're ordering.

#### **Environmental Hypermedia Programs, Volume III** (1999)

\$15 (USD \$20 for orders outside the US)

20 programs, including CD-ONLY titles FISH, EACASE, and EARG. For complete contents, see [www.epa.gov/seahome/cd-contents.html#vol3](http://www.epa.gov/seahome/cd-contents.html#vol3)

#### **Environmental Hypermedia Programs, Volume II**, First Edition (1998)

\$15 (USD \$20 for orders outside the US)

Contains 11 programs, three of which are available only on CD-ROM (FISH, EACASE and EARG). For complete contents, see [www.epa.gov/seahome/cd-contents.html#vol2](http://www.epa.gov/seahome/cd-contents.html#vol2)

#### **Environmental Hypermedia Programs and Water Quality Models, Second Edition** (1996)

\$25 (USD \$30 for orders outside the US)

A reissue of Purdue's first CD-ROM from 1994. Contains over 50 programs, including modeling and calculator software, and the expanded version of WETHERB. For complete contents, see [www.epa.gov/seahome/cd-contents.html#vol1](http://www.epa.gov/seahome/cd-contents.html#vol1)